



## SEQUENCE LISTING

&lt;110&gt; YAN, Chunhua et al

<120> ISOLATED HUMAN DRUG-METABOLIZING  
PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN  
DRUG-METABOLIZING PROTEINS,  
AND USES THEREOF

&lt;130&gt; CL000685

&lt;140&gt; 09/748,127

&lt;141&gt; 2000-12-27

&lt;160&gt; 4

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 2944

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 1

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 <211> 504  
 <212> PRT  
 <213> Human

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Pro Pro Gly Pro Thr Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Leu
35     40     45
Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr
50     55     60
Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val
65     70     75     80
Leu Val Gly Gln Glu Ala Val Arg Glu Ala Leu Gly Gly Gln Ala Glu
85     90     95
Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp
100    105    110
Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg
115    120    125
Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu
130    135    140
Gly Glu Glu Leu Ile Gln Ala Glu Ala Arg Cys Leu Val Glu Thr Phe
145    150    155    160
Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Leu Ala Gln
165    170    175
Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser
180    185    190
Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr
195    200    205
Leu Leu Gly Val Ser Ser Gln Gly Gly Gln Thr Tyr Glu Met Phe Ser
210    215    220
Trp Phe Leu Arg Pro Leu Pro Gly Pro His Lys Gln Leu Leu His His
225    230    235    240
Val Ser Thr Leu Ala Ala Phe Thr Val Arg Gln Val Gln Gln His Gln

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245 250 255  
 Gly Asn Leu Asp Ala Ser Gly Pro Ala Arg Asp Leu Val Asp Ala Phe  
 260 265 270  
 Leu Leu Lys Met Ala Gln Glu Glu Gln Asn Pro Gly Thr Glu Phe Thr  
 275 280 285  
 Asn Lys Asn Met Leu Met Thr Val Ile Tyr Leu Leu Phe Ala Gly Thr  
 290 295 300  
 Met Thr Val Ser Thr Thr Val Gly Tyr Thr Leu Leu Leu Met Lys  
 305 310 315 320  
 Tyr Pro His Val Gln Lys Trp Val Arg Glu Glu Leu Asn Arg Glu Leu  
 325 330 335  
 Gly Ala Gly Gln Ala Pro Ser Leu Gly Asp Arg Thr Arg Leu Pro Tyr  
 340 345 350  
 Thr Asp Ala Val Leu His Glu Ala Gln Arg Leu Leu Ala Leu Val Pro  
 355 360 365  
 Met Gly Ile Pro Arg Thr Leu Met Arg Thr Thr Arg Phe Arg Gly Tyr  
 370 375 380  
 Thr Leu Pro Gln Gly Thr Glu Val Phe Pro Leu Leu Gly Ser Ile Leu  
 385 390 395 400  
 His Asp Pro Asn Ile Phe Lys His Pro Glu Glu Phe Asn Pro Asp Arg  
 405 410 415  
 Phe Leu Asp Ala Asp Gly Arg Phe Arg Lys His Glu Ala Phe Leu Pro  
 420 425 430  
 Phe Ser Leu Gly Lys Arg Val Cys Leu Gly Glu Gly Leu Ala Lys Ala  
 435 440 445  
 Glu Leu Phe Leu Phe Phe Thr Ile Leu Gln Ala Phe Ser Leu Glu  
 450 455 460  
 Ser Pro Cys Pro Pro Asp Thr Leu Ser Leu Lys Pro Thr Val Ser Gly  
 465 470 475 480  
 Leu Phe Asn Ile Pro Pro Ala Phe Gln Leu Gln Val Arg Pro Thr Asp  
 485 490 495  
 Leu His Ser Thr Thr Gln Thr Arg  
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<210> 3  
 <211> 504  
 <212> DNA  
 <213> Human

<220>  
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 gerwrqlrkf tmlalrdlgm gkregeeliq aearclvetf qgtegrpfdp slllaqatsn 180  
 vvcsllfglr fsyedkefqa vvraagggtll gvssqggqty emfswflrpl pgphkql1hh 240  
 vstlaaftvr qvqqhggnd asgpardlvd aflkmaqee qnpgteftnk nmlmtviy1l 300  
 fagtmtvstt vgyt1111mk yphvqkwvre elnrelgagq apslgdrtrl pytdavlhea 360  
 qrllalvpmg iprtlmrttr frgytlpqgt evfp11lgsil hdpnifkhpe efnpdrflda 420  
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<210> 4

<211> 489  
 <212> PRT  
 <213> Rabbit

<400> 4

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Leu	Pro	Pro	Gly	Pro	Thr	Pro	Ile	Pro	Phe	Leu	Gly	Asn	Leu	Leu	Gln
		35					40					45			
Val	Arg	Thr	Asp	Ala	Thr	Phe	Gln	Ser	Phe	Leu	Lys	Leu	Arg	Glu	Lys
	50				55					60					
Tyr	Gly	Pro	Val	Phe	Thr	Val	Tyr	Met	Gly	Pro	Arg	Pro	Val	Val	Ile
65				70					75						80
Leu	Cys	Gly	His	Glu	Ala	Val	Lys	Glu	Ala	Leu	Val	Asp	Arg	Ala	Asp
			85					90						95	
Glu	Phe	Ser	Gly	Arg	Gly	Glu	Leu	Ala	Ser	Val	Glu	Arg	Asn	Phe	Gln
		100						105					110		
Gly	His	Gly	Val	Ala	Leu	Ala	Asn	Gly	Glu	Arg	Trp	Arg	Ile	Leu	Arg
	115						120					125			
Arg	Phe	Ser	Leu	Thr	Ile	Leu	Arg	Asp	Phe	Gly	Met	Gly	Lys	Arg	Ser
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Ile	Glu	Glu	Arg	Ile	Gln	Glu	Glu	Ala	Gly	Tyr	Leu	Leu	Glu	Glu	Phe
145				150					155						160
Arg	Lys	Thr	Lys	Gly	Ala	Pro	Ile	Asp	Pro	Thr	Phe	Phe	Leu	Ser	Arg
			165					170						175	
Thr	Val	Ser	Asn	Val	Ile	Ser	Ser	Val	Val	Phe	Gly	Ser	Arg	Phe	Asp
		180						185					190		
Tyr	Glu	Asp	Lys	Gln	Phe	Leu	Ser	Leu	Leu	Arg	Met	Ile	Asn	Glu	Ser
	195						200					205			
Phe	Ile	Glu	Met	Ser	Thr	Pro	Trp	Ala	Gln	Leu	Tyr	Asp	Met	Tyr	Ser
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225				230					235						240
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Ile	Lys	Met	His	Gln	Asp	Lys	Asn	Asn	Pro	His	Thr	Glu	Phe	Asn	Leu
	275						280					285			
Lys	Asn	Leu	Val	Leu	Thr	Thr	Leu	Asn	Leu	Phe	Phe	Ala	Gly	Thr	Glu
	290					295					300				
Thr	Val	Ser	Ser	Thr	Leu	Arg	Tyr	Gly	Phe	Leu	Leu	Ile	Met	Lys	His
305					310				315						320
Pro	Glu	Val	Gln	Thr	Lys	Ile	Tyr	Glu	Glu	Ile	Asn	Gln	Val	Ile	Gly
			325					330						335	
Pro	His	Arg	Ile	Pro	Ser	Val	Asp	Asp	Arg	Val	Lys	Met	Pro	Phe	Thr
		340						345					350		
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Asp	Pro	Lys	Tyr	Phe	Cys	His	Pro	Asp	Asp	Phe	Tyr	Pro	Gln	His	Phe
			405					410						415	

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Leu	Phe	Leu	Tyr	Phe	Thr	Ser	Ile	Leu	Gln	Asn	Phe	Ser	Leu	His	Pro
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465					470					475					480
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				485											